INDEX TO AUTHORS OF PAPERS TO VOLUME 13

Adli, M. A. and Hanafusa, H. Contribution of internal forces to the dynamics of closed chain mechanisms, 507–514

Arimoto, S. Fundamental problems of robot control: Part I, Innovations in the realm of robot servo-loops, 19–27

Arimoto, S. Fundamental problems of robot control: Part II A nonlinear circuit theory towards an understanding of dexterous motions, 111–122

Armstrong-Hélouvry, B. See Corke and Armstrong-Hélouvry

Balakrishnan, S. See Singh, Zghal, Sepehri, Balakrishnan and Lawrence

Baz, A. See Gumusel and Baz

Beaufrere, B. and Zeghloul, S. A mobile robot navigation method using a fuzzy logic approach, 437–448

Beiner, L. A min-max problems of optimal actuator placement for lifting, 619–622

Benhadj, R. and Dawson, B. Air jets imaging tactile sensing device for automation applications, 521–529

Beom, H. R. and Cho, H. S. Mobile robot localization using a single rotating sonar and two passive cylindrical beacons, 243–252

Bessonnet, G. See Gaudin and Bessonett

Bhattacharya, S., Hatwal, H. and Ghosh, A. On the optimum design of Stewart platform type parallel manipulators, 133–140

Billatos, S. B. A novel approach to flexible robotic assembly systems, 583–589

Bobrow, J. E. and Desai, J. A high torque to weight ratio robot actuator, 201–208

Bridges, M. M., Cai, J., Dawson, D. M. and Grabbe, M. T. Experimental results for a robust position and force controller implemented on a direct robot, 11–18

Brown, A. See Kalaycioglu and Brown

Cai, J. See Bridges, Cai, Dawson and Grabbe

Chiacchio, P. and Chiaverini, S. Coping with joint velocity limits in first-order inverse kinematics algorithms: analysis and real-time implementation, 515–519

Chiaverini, S. See Chiacchio and Chiaverini

Cheng, R. M. H. See Mehrabi, Cheng and Hemami

Cherchas, D. B. See Kotzev, Cherchas and Lawrence

Cho, D. J., Kim, J. H. and Gweon, D. G. Optimal turning gait of a quadruped walking robot, 559–564

Cho, D. K., Choi, B. W. and Chung., M. J. Optimal conditions for inverse kinematics of a robot manipulator with redundancy, 95–101

Cho, H.-K., Lee, B.-H. and Ko, M.-S. Path constrained time-optimal motion of a cooperative two robot system, 363–374

Cho, H. S. See Beom and Cho

Cho, H. S. See Kang and Cho

Cho, J.-K. and Park, Y.-S. Vibration reduction in flexible systems using a time- varying impulse sequence, 305–313

Choi, B. W. See Cho, Choi and Chung

Choi, D. See Chong, Choi and Suh

Choi, H. R., Chung, W. K. and Youm Y. Control of grasp stiffness using a multifingered robot hand with redundant joints, 351–362

Choi, P. J. and Rice, J. A. Spline-based micro accuracy joint interpolation, 37–44

Chong, N. Y., Choi, D. and Suh, I. H. A motion planning strategy for multifingered hands considering sliding and rolling contacts, 149–158

Christiansen, A. D. and Goldberg, K. Y. Comparing two algorithms for automatic planning by robots in stochastic environments, 565–573

Chung, M. J. See Cho, Choi and Chung

Chung, W. K. See Choi, Chung and Youm

Cléroux, L., Gourdeau, R. and Cloutier, G. M. A semi-flexible kinematic model for serial manipulators, 385–395

Cloutier, G. M. See Cléroux, Gourdeau and Cloutier

Colbaugh, R. and Glass, K. Decentralized adaptive compliance control of robot manipulators, 485–498

Corke, P. I. and Armstrong-Hélouvry, B. A meta-study of PUMA 560 dynamics: A critical appraisal of literature data, 253–258

Cosmi, F. See Rovetta, Sala, Wen, Cosmi, Togno and Milanesi

Dalay, B. S. See Qiao, Dalay and Parkin

Davidovic, T. See Kircanski, Davidovic and Vukobratovic

Dawson, B. See Benhadj and Dawson

Dawson, D. M. See Bridges, Cai, Dawson and Grabbe

Dawson, D. M. See Qu, Dawson, Dorsey and Duffie

DeSantis, R. M. Modeling and path-tracking control of a mobile wheeled robot with a differential drive, 401–410

Denizhan, Y. A compliant control method for disassembly of non-elastic parts using realised motion, 591–598

Desai, J. See Bobrow and Desai

Dissanayake, M. W. M. G. See Lee and Dissanayake

Dorsey, J. F. See Qu, Dawson, Dorsey and Duffie

Duffie, J. D. See Qu, Dawson, Dorsey and Duffie

Dulęba, I. The method of minimal neighborhood: a new and most effective iterative method for minimum cost trajectory planning in robot manipulators, 297–304

Gaudin, H. and Bessonnet, G. From identification to motion optimization of a planar manipulator, 123–132

Ghosh, A. See Bhattacharya, Hatwal and Ghosh

Glass, K. See Colbaugh and Glass

Goldberg, K. Y. See Christiansen and Goldberg

Gorbet, R. B. and Russell, R. A. A novel differential shape memory alloy actuator for position control, 423–430

Gourdeau, R. See Cléroux, Gourdeau and Cloutier

Grabbe, M. T. See Bridges, Cai, Dawson and Grabbe

Gumusel, L. and Baz, A. Experimental and theoretical evaluation of the buoyancy and gravity driven underwater robots, 273–286

Gupta, K. and Xu, Z. Complete 3D boundary representation from multiple range images: exploiting geometric constraints, 339–349

Gweon, D. G. See Cho, Kim and Gweon

Hamavand, Z. and Schwartz, H. M. Trajectory control of robotic manipulators by using a feedback-error-earning neural network, 449–459

Hanafusa, H. See Adlı and Hanafusa

Hatwal, H. See Bhattacharya, Hatwal and Ghosh

Hemami, A. See Mehrabi, Cheng and Hemami

Hsia, T. C. See Jung and Hsia

Hsia, T. C. See Preising and Hsia

Jumarie, G. Stochastic Hamilton's principle and noisy sliding surfaces in the tracking control of manipulators, 209–213

Jung, S. and Hsia, T. C. A new neural network control technique for robot manipulators, 477–484

Kalaycioglu, S. and Brown, A. Adaptive hybrid force/position control for the Space Station Alpha robotic operations, 549–557

Kang, E. S. and Cho, H. S. Vibratory assembly of prismatic parts using neural network-based positioning error estimation, 185–193

Kazerounian, K. See Vahidi and Kazerounian

Kelly, R. A tuning procedure for stable PID control of robot manipulators, 141–148

Kim, J. H. See Cho, Kim and Gweon

Kircanski, N., Davidovic, T. and Vukobratovic, M. A contribution to parallelization of symbolic robot models, 411–421

Kleeman, L. A three dimensional localiser for autonomous robot vehicles, 87–94

Ko, M.-S. See Cho, Lee and Ko

Ko, M.-S. See Lee, Lee and Ko

Kostamovaara, J. See Nissil and Kostamovaara

Kotzev, A., Cherchas, D. B. and Lawrence, P. D. Performance of generalized predictive control with on-line model order determination for a hydraulic robotic manipulator, 55–64

Krishnamurthy, K. and Yang, L. Dynamic modeling and simulation of two cooperating structurally-flexible robotic manipulators, 375–384

Lawrence, P. D. See Kotzev, Cherchas and Lawrence

Lawrence, P. D. See Singh, Zghal, Sepehri, Balakrishnan and Lawrence

Lee, B.-H. See Cho, Lee and Ko

Lee, B. H. See Lee, Lee and Ko

Lee, K. D., Lee, B. H. and Ko, M. S. A comparative model-based analysis and design for multi-robot systems, 65–76

Lee, K. Y. and Dissanayake, M. W. M. G. Near minimum-time trajectory for two coordinated manipulators, 177–184

Lee, M. H. See Rodrigues, Li, Lee and Rowland

Li, Y. F. See Rodrigues, Li, Lee and Rowland

Malowany, A. S. See Noorhosseini and Malowany

Matuszok, A. See Tchoń and Matuszok

Mehdian, M. and Thomas, D. Tactile recognition of solid objects, 169–175

Mehrabi, M. G., Cheng, R. M. H. and Hemami, A. Parametric study and sensitivity analysis of automated vehicles, 469–475

Milanesi, S. See Rovetta, Sala, Wen, Cosmi, Togno and Milanesi

Nicholls, H. R. See Rowland and Nicholls

Nissil, S. and Kostamovaara, J. On the use of optical fibres in a pulsed time-of-flight laser rangefinder, 45–53

Noorhosseini, S. M. and Malowany, A. S. State Matrix Representation of Assembly and Robot Planning, 259–272

Parkin, R. M. See Qiao, Dalay and Parkin

Preising, B. and Hsia, T. C. Robot performance measurement and calibration using a 3D computer vision system, 327–337

Qiao, H., Dalay, B. S. and Parkin, R. M. A novel and practical strategy for the precise chamferless robotic peg hole insertion, 29–35

Qu, Z., Dawson, D. M., Dorsey, J. F. and Duffie, J. D. Robust estimation and control of robotic manipulators, 223–231

Park, Y.-S. See Cho and Park

Pham, D. T. and Sagiroglu, S. Three methods of training multi-layer perceptors to model a robot sensor, 531–538

Pham, D. T. See Rowlands and Pham

Rahmanian-Shahri, N. and Troch, I. Collision-avoidance control for redundant articulated robots, 159–168

Rice, J. A. See Choi and Rice

Rodrigues, M. A., Li, Y. F., Lee, M. H. and Rowland, J. J. Robotic grasping of complex shapes: is full geometrical knowledge of the shape really necessary?, 499–506

Rovetta, A., Sala, Remo, Wen, X., Cosmi, F., Togno, A. and Milanesi, S. Telerobotic surgery project for laparoscopy, 397–400

Rowland, J. J. and Nicholls, H. R. A virtual sensor implementation for a flexible assembly machine, 195–199

Rowland, J. J. See Rodrigues, Li, Lee and Rowland

Rowlands, H. and Pham, D. T. Application of the Taguchi method to the design of a robot sensor, 607–617

Russell, R. A. See Gorbet and Russell

Sagiroglu, S. See Pham and Sagiroglu

Sala, R. See Rovetta, Sala, Wen, Cosmi, Togno and Milanesi

Sanders, D. A. The modification of pre-planned manipulator paths to improve the gross motions associated with the pick and place task, 77–85

Sasaki, S. Feasibility studies of kinematics problems in the case of a class of redundant manipulators, 233–241

Seo, Y.-J. and Yoon, Y.-S. Design of a robust dynamic gait of the biped using the concept of dynamic stability margin, 461–468

Sepehri, N. See Singh, Zghal, Sepehri, Balakrishnan and Lawrence

Schwartz, H. M. See Hamavand and Schwartz

Singh, N., Zghal, H., Sepehri, N., Balakrishnan, S. and Lawrence, P. D. Coordinated-motion control of heavy-duty industrial machines with redundancy, 623–633

Suh, I. H. See Chong, Choi and Suh

Tasch, U. See Varma and Tasch

Tchoń, K. and Matuszok, A. On avoiding singularities in redundant robot kinematics, 599–606

Thomas, D. See Mehdian and Thomas

Togno, A. See Rovetta, Sala, Wen, Cosmi, Togno and Milanesi

Troch, I. See Rahmanian-Shahri and Troch

Vahidi, S. and Kazerounian, K. On the sensitivity analysis of the computational kinematics of the robotic manipulators, 575–581

Varma, V. K. and Tasch, U. A new representation for a robot grasping quality measure, 287–295

Vukobratovic, M. See Kircanski, Davidovic and Vukobratovic

Wen, X. See Rovetta, Sala, Wen, Cosmi, Togno and Milanesi

Xu, Z. See Gupta and Xu

Yang, L. See Krishnamurthy and Yang

Yoon, Y.-S. See Seo and Yoon

Youm, Y. See Choi, Chung and Youm

Zeghloul, S. See Beaufrere and Zeghloul

Zghal, H. See Singh, Zghal, Sepehri, Balakrishnan and Lawrence

INDEX TO BOOKS REVIEWED IN VOLUME 13

The name of the reviewer of the book is given in parentheses

Brown, R. A. *Machines That Learn*: *Based on the Principles of Empirical Control*, (A. M. Andrew), 105–106

Crowley, J. L. and Christensen, H. I. *Vision as Process*, (I. Craig), 540

Dumoulin, E. and Trystram, G. *Automated Control of Food and Biological Processes*, (T. Owen), 539

Fisher, R. B. (ed.) *Design and Application of Curves and Surfaces*, (H. G. Fox), 320

Harris, L. and Jenkin, M. *Spatial Vision in Humans and Robots*, (I. Craig), 106

Hartmanis, J. and Lin, H. (eds.) *Computing*: *The Future a Broader Agenda for Computer Science and Engineering*, (I. Craig), 319–320

Hoeschele, D. F. *Analog-to-Digital and Digital-to-Analog Conversion Techniques* (*2nd edn*), (I. Craig), 321

Honderd, G. and Grant, E. *Intelligent Systems*: *Safety, Reliability and Maintainability Issues*, (A. M. Andrew), 107–108

McMahon, W. W. *An Efficiency-Based Management Information System*, (A. M. Andrew), 105

Nicholls, H. R. *Advanced Tactile Sensing for Robotics*, (A. M. Andrew), 106–107

Rao, M., Xia, Q. and Ying, Y. *Modeling and Advanced Control for Process Industries*: *Applications to the Paper Making Process*, (T. Owen), 320–321

Robothkayhdistystry, S. *Scandinavian Symposium on Robotics*, (T. Owen), 539

Schilling, J. and White, R. B. *Robotic Manipulation*: *Programming and Simulation Studies with Software*, (I. Craig), 319

Szafarczyk, M. (ed.) *Automatic Supervision in Manufacturing*, (T. Owen), 321

Tebbutt, C. *Expert Aided Control System Design*, (T. Owen), 320

United Nations *World Industrial Robots* 1994, (T. Owen), 539

Wiendahl, H.-P. *Load-Orientated Manufacturing Control*, (T. Owen), 539